

APPENDIX C

Early Action Results and Summaries



*Harvesting Barnegat Bay Clams. PHOTO COURTESY OF THE TUCKERTON SEAPORT,
A PROJECT OF THE BARNEGAT BAY DECOY AND BAYMEN'S MUSEUM, INC.*

YOU ARE IN THE
BARNEGAT BAY WATERSHED

**HELP KEEP
OUR WATERS
CLEAN**



**TO REPORT
ENVIRONMENTAL CRIMES
609-292-7172 (24 HOURS)**

**FOR ESTUARY EDUCATION
CALL RUTGERS
COOPERATIVE
EXTENSION 732-505-3671**

THIS IS A COOPERATIVE PROJECT OF THE BARNEGAT BAY WATERSHED ASSOCIATION.
THIS SIGN WAS PRODUCED WITH THE ASSISTANCE OF



APDP FUNDS AWARDED ROUND 1: \$75,000

PROJECT: **ECO-TOUR OF A BARRIER ISLAND - TRAIN THE TRAINER**

Description: The Alliance for a Living Ocean (ALO) Eco-Tour of a Barrier Island teaches responsible citizen action in a shore environment. This program was expanded by offering ALO's services to act as a trainer for other shore communities that might mirror ALO's program, thus teaching their citizens good nonpolluting practices.

Cost: \$5,000

Start Date: 12/8/97

End Date: 8/24/99

Status: Complete

Recipient: **Alliance for a Living Ocean**

Lessons Learned: The original purpose of this project was to train teachers and other professionals about environmental actions to protect Barnegat Bay. They would then take their new teaching skills and environmental information back to their school districts or other community organizations. Little response was received from teachers in 1998, so ALO then focused on training high school and college students who may become teachers or environmental educators in the future. This proved to be very successful. Fifteen tours were given during April, May and June in 1999. Four of the eco-tours were conducted for seventh graders from the Medford Memorial School, Medford, New Jersey. These teachers have supported classroom work with the field trips.

ALO also attended the Barnegat Bay Environmental Education Roundtable on April 29, 1999. A brief field trip was led on the beach front and a lesson plan which included interdisciplinary activities was distributed to the teachers.

Contact Person: Carol Elliot
 Alliance for a Living Ocean
 PO Box 95
 Ship Bottom, NJ 08008
 (609) 492-0222

PROJECT: **WATERSHED SIGNS POSTING AT PUBLIC ACCESS POINTS**

Description: The purpose of this project was to post watershed signs at public access points (boat ramps, parks, beaches, etc.) to increase the awareness of the Barnegat Bay watershed.

Cost: \$9,289

Start Date: 12/8/97

End Date: 4/99

Status: Complete

Recipient: **Barnegat Bay Watershed and Estuary Foundation**

Lessons Learned: Fifty colorful signs featuring "Barnie the Crab" and other aquatic resources asking citizens to "Help Keep Our Waters Clean" have been posted at public access points in the Barnegat Bay watershed. The signs included telephone numbers for watershed education,

EARLY ACTION RESULTS AND SUMMARIES

Watershed Signs Posting at Public Access Points (continued)

information and environmental crime reporting. Ocean County will provide approximately \$10,000 of funding in 2001 for additional signs throughout the watershed.

Contact Person: Angela Anderson
Barnegat Bay Watershed and Estuary Foundation
1508 Waverly Ave.
N. Beach Haven, NJ 08008
(609) 294-3111

PROJECT: ENVIRONMENTAL EDUCATORS' ROUNDTABLE

Description: The purpose of this project was to convene a series of meetings to focus, coordinate, and promote educational activities on Barnegat Bay and nonpoint source pollution prevention. This project would help coordinate the various players within the County that have a role in environmental education and pollution prevention. A directory would be developed that would give information on who is best positioned to take the lead on particular outreach or educational activities. The long-term goal is to provide educators in Ocean County with a Barnegat Bay watershed-specific activity guide that will be consistent with and correlated to the New Jersey Core Curriculum Standards.

Cost: \$16,000

Start Date: 12/8/97

End Date: 5/25/00

Status: Complete

Recipient: Ocean County Soil Conservation District

Lessons Learned: OCSCD convened two Environmental Educator Roundtable meetings to focus, coordinate, and promote educational activities on Barnegat Bay and nonpoint source pollution prevention. The purpose of the first meeting was to encourage networking, sharing and coordination among the educators within our ecologically significant watershed. The second meeting featured an array of hands-on and interactive field trips and activities to motivate teachers to incorporate Barnegat Bay Watershed topics into their curriculum. A directory of local, state, and national environmental educators and activities was also produced. NJDEP and the Barnegat Bay Estuary Program have awarded OCSCD with funds to develop a Barnegat Bay watershed-specific activity guide. Ocean County will provide some funding to continue the Educators Roundtable, Outdoor Classrooms, and implementation of the watershed-specific activity guide.

Contact Person: Kerry Jennings
OCSCD
714 Lacey Road
Forked River, NJ 08731
(609) 971-7002

PROJECT: PUBLIC DEMONSTRATION OF MARINE PUMPOUT VESSEL

Description: Conducted "show me" demonstrations of the marine pumpout boat's operation.

Cost: \$15,000

Public Demonstration of Marine Pumpout Vessel (continued)

Start Date: 12/8/97
 End Date: 3/99
 Status: Complete
Recipient: **Pete McLain**
 Lessons Learned: Four in-water demonstrations were provided for the public. Also, a pumpout boat color slide program was presented to a joint meeting of the Barnegat Bay Estuary Program committees. Reporters from four newspapers were taken on tours of the pumpout boat and accompanied the captain during regular pumpout operations. The pumpout boat serviced 466 boats, removing 7,045 gallons of sewage. The sewage was transferred to a sanitary sewer line and treated at the Ocean County Utilities Authority Central Treatment Facility.
 The popularity of the pumpout boat during its first three years of operation has resulted in the purchase of a second pumpout boat, operated by Tuckerton Seaport.

Contact Person: Pete McLain
 10 Cedar Drive
 Toms River, NJ 08753
 (732) 349-6418

PROJECT:**BARNEGAT BAY ECOSYSTEM RESTORATION AND PUBLIC OUTREACH**

Description: The purpose of this project was to encourage, educate, and demonstrate the significance of plant diversity in protecting valuable coastal bay beaches. A major effort was to work with boaters to inform them about the benefits of maintaining coastal vegetation and to encourage designated areas as footpaths for access to boats to minimize the loss of vegetation. Also, because of its location and visibility, the site serves as an excellent demonstration area for tourists to learn about the benefits of plant diversity in the restoration of coastal beaches on Barnegat Bay. The site also demonstrates improved restoration techniques to landowners and municipalities.

Cost: \$29,720
 Start Date: 12/8/97
 End Date: 12/31/99
 Status: Complete

Recipient:**Ocean County Soil Conservation District**

Lessons Learned: Four sites along Bayview Avenue in Seaside Park were selected for restoration: 12th to 13th streets; 6th to 8th Streets; 1st to Island Streets; and a small area north of I Street. Plants native to bay coastal beaches and back dune areas were selected. Students from Seaside Park Elementary School helped with some of the plantings. A sign was installed at each site to inform and educate the public about the project. In order to protect the newly planted vegetation and help to stabilize the dunes, the Borough of Seaside Park has adopted an Ordinance which restricts the storage of boats along Bayview Avenue. The Borough has also been active in installing fence around the plantings.
 OCSCD also co-sponsored a Coastal Restoration Workshop, "Understanding, Enhancing and Controlling Erosion Along River, Bay and Ocean Shorelines" in the fall of 1998.

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 OCSCD
 714 Lacey Road
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EARLY ACTION RESULTS AND SUMMARIES

APDP Funds Awarded Round 2: \$75,000

PROJECT: **PLAN FOR DREDGED MATERIAL DISPOSAL & RESTORATION**

Description: The primary product of this project will be a detailed written plan for dredge material disposal and waterbird habitat creation and enhancement within the project area covering the next 20-25 years. Maps will be included in the plan depicting all proposed disposal sites and identifying species associated with each site. Specific recommendations for regulatory changes to appropriate agencies will be provided in the plan. The plan will also include a section on the resource and user benefits of the Barnegat Bay and Little Egg Harbor Estuary.

Cost: \$10,567

Start Date: 6/1/99

End Date: 12/31/00

Status: Interim Progress Report received 9/25/00

Recipient: **NJDEP**

Lessons Learned: The interim report indicates that all of the initial mapping of nesting sites, vegetation coverage and bird nesting areas has been completed. The data on bird nesting has been synthesized and summarized. All sites were visited to determine current nesting status, particularly by long-legged wading birds. A great deal of information on dredge disposal history and future needs has been collected. The NJDEP is still collecting this information for some sites, especially for privately maintained sites. The primary remaining tasks include some minor additional data collection, additional data synthesis, and plan formulation.

Contact Person: C. David Jenkins, Jr.
NJDEP, Div. Fish, Game, and Wildlife
Endangered and Nongame Species Program
PO Box 400
Trenton, NJ 08625-0400
(609) 628-2103

PROJECT: **PUMPOUT BOAT PROGRAM**

Description: The purpose of this project was to continue the 1998 pumpout boat program by updating the pumpout boat brochure and conducting an extension service for Ocean County by providing guidance, educational materials, and information on boat operations and acquisitions to Ocean County municipalities. Brochures and a slide show were available at boat shows, to boating and yacht clubs, and other locations where boaters gather.

Cost: \$15,000

Start Date: 6/1/99

End Date: 3/14/00

Status: Complete

Recipient: **Jersey Shore Audubon Society**

Lessons Learned: As a result of discussions with municipalities about pumpout boats and the recent applications for a No Discharge Zone for the Navesink and Shrewsbury Rivers and the Barnegat Bay, a second pumpout boat has been acquired for Tuckerton Seaport and one has been purchased for the Navesink River. A proposal for another pumpout boat in Barnegat Bay has been submitted (for a total of three). Also in 2000, there were approximately 8,000 gallons of sewage pumped out at Tices Shoal. Thousands of brochures were distributed at festivals, boat shows and boating and yacht clubs.

Pumpout Boat Program (continued)

Contact Person: Pete McLain
 10 Cedar Drive
 Toms River, NJ 08753
 (732) 349-6418

PROJECT: MANAGING OUR ENDANGERED SPECIES HERITAGE

Description: The goal of this project was to develop management plans for selected plant and animal species in a portion of the Forked River Mountain area which may be readily demonstrated to municipalities, county or state agencies, or other interested groups.

Cost: \$9,996

Start Date: 6/1/99

End Date: 7/31/00

Status: Complete

Recipient: Forked River Mountain Coalition

Lessons Learned: The Forked River Mountain Coalition held conferences and workshops to select an area in which endangered species occur in the Forked River Mountain Preserve, select species for the development of individual management plans, and to develop management/recovery plans for the selected species. Two floral and two faunal species were selected: Bog Asphodel, Pine Barren Gentian, Northern Pine Snake, and Pine Barrens Treefrog. Fact sheets were developed for each species that described the species, its appearance, habitat requirements, threats, and management techniques to protect these species.

Contact Person: Kerry Jennings, President
 Forked River Mountain Coalition
 PO Box 219
 Forked River, NJ 08731
 (609) 971-7002

PROJECT: LOCAL GOVERNMENT OUTREACH PROGRAM

Description: The purpose of the Municipal Outreach and Recognition Project (MORP) was to find successful examples of actions being taken by municipalities that demonstrate Best Management Practices and protect the environment of the Barnegat Bay and watershed.

Cost: \$7,372

Start Date: 6/1/99

End Date: 8/3/00

Status: Complete

Recipient: Barnegat Bay Watershed and Estuary Foundation

Lessons Learned: The MORP highlighted five municipalities: Lacey, Jackson, Plumsted, Lakewood, and Millstone. The five townships highlighted are all upstream from the Barnegat Bay where the connection to the Bay is less obvious. A Community Connections Newsletter will be presented to the municipalities as a way of weaving together the concepts of the entire MORP project as it relates to them. The watershed municipalities will begin to receive the tools necessary to initiate activities of other communities.

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Local Government Outreach Program (continued)

This grant made it possible to begin to introduce some transferable watershed projects to the communities within the Barnegat Bay watershed. This grant project has opened the door to further watershed projects and for the Barnegat Bay Watershed and Estuary Foundation to continue to develop the watershed recognition concept.

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PROJECT: NERRS COASTAL DECISION-MAKING RESEARCH CENTER

Description: The Jacques Cousteau National Estuarine Research Reserve (JCNERR) will develop a Coastal Repository at the new Coastal Training Center in Tuckerton. This Coastal Repository will support Coastal Decision-Maker training programs offered by the Reserve in the Barnegat Bay Watershed by offering visual and written resources on watershed planning strategies, protective site design principles, best management practices, and model environmental ordinances.

Cost: \$16,995
Start Date: 6/1/99
End Date: 12/31/00
Status: Interim report submitted 8/15/00.

Recipient: JCNERR

Lessons Learned: The interim report indicates that planning and development of the Coastal Repository is under way and the new facility that will house the Repository has been completed. Materials for Repository have not been purchased yet.

Contact Person: Lisa Weiss, Watershed Coordinator
Jacques Cousteau National Estuarine Research Reserve
130 Great Bay Boulevard
Tuckerton, NJ 08087
(609) 812-0649

PROJECT: WATERSHED DEMONSTRATION GARDEN

Description: OCSCD developed this project to demonstrate to municipal officials and residents how to improve and manage landscapes utilizing low input techniques. The District worked closely with Lacey Township's Department of Public Works to design, plan and implement demonstration gardens throughout the township. Each of the gardens was designed utilizing best management practices suitable to that particular site. Two signs were installed at each site. The first describes the purpose of the garden and identifies project partners. The second provides a site-specific diagram accompanied by a planting list and key.

Watershed Demonstration Garden (continued)

A workshop and tour of the Demonstration Gardens was also conducted as part of this project. A draft brochure was prepared for the workshop and is currently being revised. The brochures will be available to visitors of the gardens in a flip box at each site.

Cost: \$12,000

Start Date: 6/1/99

End Date: 8/14/00

Status: Complete

Recipient: Ocean County Soil Conservation District

Lessons Learned: OCSCD was able to install five Demonstration Gardens in Lacey Township. This was accomplished, in part, by leveraging funds from this project with other ongoing projects containing similar tasks. This project was successful because all the gardens are in highly utilized and visible locations and will be maintained by the township. The gardens will remain long after the initial project has been completed.

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PROJECT: ADOPT-A-STORM DRAIN

Description: The purpose of this project was to extend and continue the Adopt-a-Storm Drain program on Long Beach Island as well as throughout mainland communities along the Barnegat Bay. This program was an expansion of the Alliance for a Living Ocean's (ALO) Crab Connection storm drain stenciling public education campaign. This program addresses nonpoint source pollution and the consequential water quality degradation in the Barnegat Bay estuary, as well as the coastal issue of flooding and the importance of properly functioning storm drain systems facilitating proper drainage.

Cost: \$3,070

Start Date: 6/1/99

End Date: 7/26/00

Status: Complete

Recipient: Alliance for a Living Ocean

Lessons Learned: During 1999, ALO mailed more than 7,650 pieces of Adopt-a-Storm Drain materials to property owners on Long Beach Island and Ocean Township. These mailings included an introductory letter, a drain location/adoption sheet, the Crab Connection flyer explaining nonpoint source pollution, and an ALO brochure. As of 1999, 252 storm drains were adopted according to the mid-season summary. For the remainder of the year, 50 storm drains were adopted.

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Here in this little Bay
Full of tumultous life and great repose,
Where, twice a day,
The purposeless, glad ocean comes and goes.

--Coventry, Kersey Dighton Patmore (1823 - 1896)
